



In The Claims:

Claims are listed as follows:

Claims 1-16 (Canceled)

Claims 17-22 (Canceled).

Claims 23-27 (Canceled).

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Technology Center 2600

~~29.~~ (New) In a signal amplifying circuit system for a charge coupled device camera the improvement comprising;

a first automatic gain control auxiliary amplifying circuit (m_1) having a low amplification degree and high signal to noise ratio; a second separate automatic gain control auxiliary amplifying circuit (m_2) having a high amplification degree and a low signal to noise ratio that is less than about the minimum signal to noise ratio of said auxiliary amplifying circuit with a high signal to noise ratio;

a detector for detecting a change of object illumination;

and,

a switch activated by said detector for switching from said first automatic gain control auxiliary amplifying circuit (m_1) having a low amplification degree and high signal to noise ratio to said second separate automatic gain control auxiliary amplifying circuit (m_2) having a high amplification degree and a low signal to noise ratio] when said object illumination produces a signal-to-noise ratio that is less than the minimum signal to

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noise ratio of said first automatic gain control auxiliary amplifying circuit (m_1) with said high signal to noise ratio;

whereby said charge coupled device camera is switched to said second separate automatic gain control auxiliary amplifying circuit (m_2) having a high amplification degree when ambient illumination of said object is extremely low thereby substantially broadening the range of light levels suitable for photographs by said charged coupled device camera.

²
~~29~~ (New) The signal amplifying circuit system according to Claim ~~28~~ in which said signal to noise ratio of said second separate automatic gain control auxiliary amplifying circuit (m_2) with a high amplification degree and low signal to noise ratio is a minimum signal to noise ratio that is greater than about 20 dB.

³
~~30~~ (New) The signal amplifying circuit system according to Claim ~~29~~ in which said second separate automatic gain control auxiliary amplifying circuit (m_2) having a high signal to noise ratio has a signal to noise ratio that is kept at greater than about 40 dB.

⁴
~~31~~ (New) The signal amplifying circuit system according to Claim ~~30~~ in which said detector is constructed to detect and activate said switch at light levels below about 0.02 lux at a signal to noise ratio above about 40 dB.

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32 (New) The signal amplifying circuit system according
to Claim ~~31~~⁴ in which the light level for photographs are
broadened to low light levels in the range of 0.01 lux to about
0.001 lux.